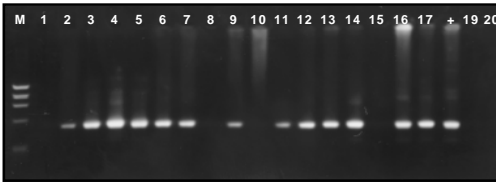


Independent Measures for Assessing Accuracy of PCR Diagnostic Tests for Avian Malaria in Hawaiian Birds

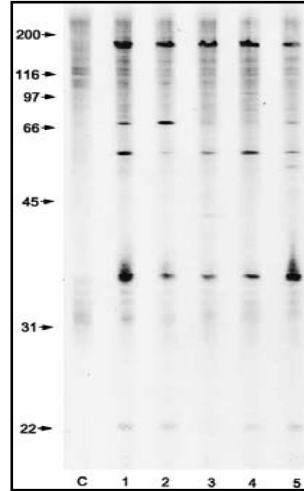
PIERC Project Leader: Carter T. Atkinson, Ph.D.



Akiapola'au



Diagnostic PCR for Avian Malaria



Western Blot for Avian Malaria

Objectives:

- ☆ Determine whether preservation of blood samples in standard DNA lysis buffers destroys antibody activity
- ☆ Develop protocol for using blood samples preserved for molecular genetic analysis in serological assays as independent verification for PCR-based diagnostic tests for disease organisms

Accomplishments:

- ☆ Interim findings indicate that standard DNA lysis buffers containing sodium dodecyl sulfate (SDS), Ethylenediaminetetraacetic acid (EDTA) and Tris buffer do not inactivate antibody activity

Significance:

- ☆ It may be possible to use archived blood samples preserved with DNA buffers to verify PCR diagnostic results and to conduct retrospective serological studies for a variety of disease organisms